

PTO/SB/08 Equivalent

Application No.	09/344,526
Filing Date	June 24, 1999
First Named Inventor	Mark S. Chee
Art Unit	1631
Examiner	Ardin H. Marschel
Attorney Docket No.	ILLINC.04ICPI

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
AS	1.	5,854,033	12-29-1998	Lizardi, P.M.	
	2.	5,679,773	10-21-1997	Holmes, C.P.	
	3.	6,060,240	05-09-2000	Kamb, A., et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹


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Examiner Signature <i>A. Smith</i>	Date Considered 02/19/2006
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

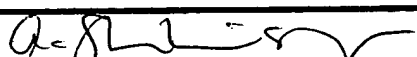
T¹ - Place a check mark in this area when an English language Translation is attached.

Substitute for form 1449A/PTO (Modified)		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/344,526
		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
Sheet 1 of 15	Attorney Docket Number	A-66828-2/RMS/DCF/KJC	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	3,712,535	01/1973	Genese, J.N., et al.	
	A2	3,748,975	07/1973	Tarabocchia	
	A3	4,125,314	11/1978	Haskell et al.	
	A4	4,224,198	09/1980	Rembaum et al.	
	A5	4,448,485	05/1984	Bergman et al.	
	A6	4,582,789	05/1986	Sheldon, III et al.	
	A7	4,687,732	08/1987	Ward et al.	
	A8	4,729,949	03/1988	Weinreb et al.	
	A9	4,772,540	09/1988	Deutsch et al.	
	A10	4,842,783	06/1989	Blaylock	
	A11	4,868,130	09/1989	Hargreaves, W.R.	
	A12	4,876,187	10/1989	Duck et al.	
	A13	4,879,097	11/1989	Whitehead, T.P., et al.	
	A14	4,894,343	01/1990	Tanaka et al.	
	A15	4,895,805	01/1990	Sato et al.	
	A16	4,981,783	01/1991	Augenlicht	
	A17	5,015,843	05/1991	Seitz et al.	
	A18	5,019,350	05/1991	Rhum et al.	
	A19	5,026,599	06/1991	Koskenmaki	
	A20	5,061,336	10/1991	Soane	
	A21	5,071,531	12/1991	Soane	
	A22	5,110,745	05/1992	Kricka et al.	
	A23	5,126,022	06/1992	Soane et al.	

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Sheet 2 of 15	Attorney Docket Number	A-66828-2/RMS/DCF/KJC	

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AS	A24	5,135,627	08/1992	Soane	
	A25	5,176,881	01/1993	Sepaniak et al.	
	A26	5,177,012	01/1993	Kim et al.	
	A27	5,185,178	02/1993	Kosenmaki	
	A28	5,185,243	02/1993	Ullman et al.	
	A29	5,272,081	12/1993	Weinreb et al.	
	A30	5,296,375	03/1994	Kricka et al.	
	A31	5,304,487	04/1994	Wilding et al.	
	A32	5,308,771	05/1994	Zhou et al.	
	A33	5,310,674	05/1994	Weinreb et al.	
	A34	5,342,737	08/1994	Georger, Jr. et al.	
	A35	5,474,895	12/1995	Ishii et al.	
	A36	5,486,335	01/1996	Wilding et al.	
	A37	5,498,392	03/1996	Wilding et al.	
	A38	5,506,141	04/1996	Weinreb et al.	
	A39	5,518,863	05/1996	Pawluczyk	
	A40	5,541,311	07/1996	Dahlberg et al.	
	A41	5,545,531	08/1996	Rava et al.	
A42	5,554,516	09/1996	Kacian et al.		
A43	5,585,069	12/1996	Zanzucchi et al.		
A44	5,587,128	12/1996	Wilding et al.		
A45	5,589,351	12/1996	Harootunian		
A46	5,593,838	01/1997	Zanzucchi et al.		

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Sheet	3	of	15

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OS	A47	5,595,915	01/1997	Geysen	
	A48	5,603,351	02/1997	Cherukuri et al.	
	A49	5,610,287	03/1997	Nikiforov et al.	
	A50	5,631,170	05/1997	Attridge	
	A51	5,631,337	05/1997	Sassi et al.	
	A52	5,632,876	05/1997	Zanzucchi et al.	
	A53	5,632,957	05/1997	Heller et al.	
	A54	5,635,358	06/1997	Wilding et al.	
	A55	5,637,469	06/1997	Wilding et al.	
	A56	5,640,234	06/1997	Roth et al.	
	A57	5,643,738	07/1997	Zanzucchi et al.	
	A58	5,647,030	07/1997	Jorgenson et al.	
	A59	5,649,576	07/1997	Kirk	
	A60	5,660,988	08/1997	Duck et al.	
	A61	5,671,303	09/1997	Shieh et al.	
	A62	5,674,698	10/1997	Zarling et al.	
	A63	5,677,196	10/1997	Herron et al.	
	A64	5,679,524	10/1997	Nikiforov et al.	
	A65	5,681,484	10/1997	Zanzucchi et al.	
	A66	5,714,330	02/1998	Brenner et al.	
	A67	5,726,026	04/1998	Wilding et al.	
	A68	5,747,169	05/1998	Fan et al.	
	A69	5,747,180	05/1998	Miller et al.	

Examiner Signature	<i>A. G. Marschel</i>	Date Considered	3/3/00
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT Use as many sheets as necessary)		Application Number	09/344,526
		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
Sheet 4 of 15	Attorney Docket Number	A-66828-2/RMS/DCF/KJC	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
OS	A70	5,750,015	05/1998	Soane et al.	
	A71	5,755,942	05/1998	Zanzucchi et al.	
	A72	5,770,029	06/1998	Nelson et al.	
	A73	5,770,157	06/1998	Cargill et al.	
	A74	5,795,716	08/1998	Chee	
	A75	5,837,196	11/1998	Pinkel et al.	
	A76	5,843,655	12/1998	McGall	
	A77	5,846,842	12/1998	Herron et al.	
	A78	5,849,215	12/1998	Gin et al.	
	A79	5,854,684	12/1998	Stabile et al.	
	A80	5,863,722	01/1999	Brenner, Sydney	
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	A85	5,888,885	03/1999	Xie	
	A86	5,922,617	07/1999	Wang et al.	
	A87	5,976,797	11/1999	Mitsubishi	
	A88	5,981,180	11/1999	Chandler et al.	
	A89	5,985,353	11/1999	Lawton et al.	
A90	5,990,479	11/1999	Weiss et al.		
A91	6,008,892	12/1999	Kain et al.		
A92	6,037,186	03/2000	Stimpson		

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Examiner Signature	<i>A. G. [Signature]</i>	Date Considered	3/3/06
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Sheet

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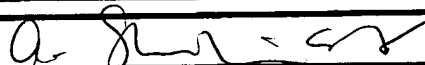
Complete if Known

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First Named Inventor	Chee, M.S.
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AS	A93	6,039,894	03/2000	Sanjurjo et al.	
	A94	6,045,760	04/2000	Aizawa et al.	
	A95	6,048,515	04/2000	Kresse et al.	
	A96	6,048,616	04/2000	Gallagher et al.	
	A97	6,060,743	05/2000	Sugiyama et al.	
	A98	6,071,748	06/2000	Modlin et al.	
	A99	6,074,754	06/2000	Jacobsen et al.	
	A100	6,087,114	07/2000	Rider	
	A101	6,090,549	07/2000	Mirzabekov et al.	
	A102	6,090,553	07/2000	Matson	
	A103	6,090,666	07/2000	Ueda et al.	
	A104	6,096,496	08/2000	Frankel	
	A105	6,100,973	08/2000	Lawandy	
	A106	6,114,038	09/2000	Castro et al.	
	A107	6,121,075	09/2000	Yamashita	
	A108	6,129,896	10/2000	Noonan et al.	
	A109	6,139,626	10/2000	Norris et al.	
	A110	6,200,737	03/2001	Walt et al.	
	A111	6,207,392 B1	03/2001	Weiss et al.	
	A112	6,210,910	04/2001	Walt et al.	
	A113	6,261,782	07/2001	Lizardi et al.	
	A114	6,266,459	07/2001	Walt, D.R. and K.L. Michael	
	A115	6,268,147 B1	07/2001	Beattie et al.	

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Sheet 6 of 15

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Application Number	09/344,526
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Group Art Unit	1631
Examiner Name	Marschel, A.H.
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AS	A116	6,274,323 B1	08/2001	Bruchez et al.	
	A117	6,280,935	08/2001	Macevycz	
	A118	6,284,456	09/2001	Jones et al.	
	A119	6,284,465 B1	09/2001	Wolber	
	A120	6,285,807	09/2001	Walt, D.R., et al	
	A121	6,306,643 B1	10/2001	Gentalen et al.	
	A122	6,327,410 B1	12/2001	Walt, D.R. and K.L. Michael	
	A123	6,355,431 B1	03/2002	Chee et al.	
	A124	6,377,721	04/2002	Walt, D.R., and L.C. Taylor	
	A125	6,396,995	05/2002	Stuelpnagel, E., et al.	
	A126	6,406,845	06/2002	Walt, D.R., and B.G. Healey	
	A127	6,429,027	08/2002	Chee, M.S., et al.	
	A128	6,482,593	11/2002	Walt, D.R., and B.G. Healey	
	A129	6,544,732	04/2003	Chee, M.S., et al.	
	A130	20010029049	10/2001	Walt, D., and T. Dickinson	
	A131	20020001801	01/2002	Fan, J.B. and M.S. Chee	
	A132	20020006617	01/2002	Fan, J.B. and M.S. Chee	
	A133	20020051971	05/2002	Stuelpnagel, J.R., et al.	
	A134	20020122612	09/2002	Walt, D.R., and K.L. Michael	
	A135	20020132221	09/2002	Chee, M.S., et al.	
	A136	20020132241	09/2002	Fan, J.B., et al.	
	A137	20020150909	10/2002	Stuelpnagel, et al.	
	A138	20020172716	11/2002	Walt, D.R., et al.	

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Sheet	7	of	15

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OS	A139	20020177141	11/2002	Chee, M., and K. Gunderson	
	A140	20021087515	12/2002	Chee, M.S., et al.	
	A141	20030003490	01/2003	Fan, J.B., and M.S. Chee	
	A142	20030016897	01/2003	Walt, D.R., and K.L. Michael	
	A143	20030027126	02/2003	Walt, D.R., and K.L. Michael	

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OS	B1	JP 01283412	09/1991	Brother Ind Ltd, et al.		
	B2	FR 2741357	05/1997	Corning Inc.		
	B3	UK 2294319A	04/1996	Cambridge Imaging Limited		
	B4	UK 2315130	01/1998	Cambridge Imaging Ltd.		
	B5	UK 2315131	01/1998	Cambridge Imaging Ltd.		
	B6	EP 0539888	05/1993	Shimadzu Corporation		
	B7	EP 0572157	12/1993	Puritan-Bennett Corporation		
	B8	EP 0799897	10/1997	Affymetrix, Inc.		
	B9	WO 92/09300	06/1992	Iterex Pharmaceuticals LTD		
	B10	WO 94/02515	02/1994	Bunsen Rush Laboratories		
	B11	WO 94/12863	06/1994	Trustees of Tufts College		

Examiner Signature	<i>A. J. [Signature]</i>	Date Considered	3/3/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	09/344,526
		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
		Attorney Docket Number	A-66828-2/RMS/DCF/KJC
Sheet	8	of	15

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵	
OS	B12	WO 95/16918	06/1995	Combichem Inc.			
	B13	WO 95/21271	08/1995	Molecular Tool Inc.			
	B14	WO 95/33070	12/1995	New York Medical College			
	B15	WO 96/04547	02/1996	Lockheed Martin Energy Systems, Inc.			
	B16	WO 96/11878	04/1996	Regents of the Univ. of CA			
	B17	WO 96/15271	05/1996	Abbott Laboratories			
	B18	WO 96/36436	11/1996	IRORI			
	B19	WO 96/40901	12/1996	Gen-Probe Inc.			
	B20	WO 97/12030	04/1997	Nanogen, Inc.			
	B21	WO 97/13870	04/1997	Heller			
	B22	WO 97/45559	12/1997	Cornell Research Foundation			
	B23	WO 98/04746	02/1998	Mount Sinai School of Medicine of CUNY			
	B24	WO 98/08092	02/1998	Smith Kline Beecham Corp.			
	B25	WO 98/29736	07/1998	Genometrix Incorporated			
	B26	WO 98/40726	09/1998	Trustees of Tufts College			
	B27	WO 98/46797	10/1998	Immunological Associates of Denver			
	B28	WO 99/00663	01/1999	California Institute of Technology			
	B29	WO 99/05320	02/1999	Rapigene, Inc.			
	Examiner Signature	A. S. Marschel		Date Considered	3/3/06	RECEIVED SEP 9 2003 TECH CENTER 1800/2900	

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		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
Sheet 9 of 15	Attorney Docket Number	A-66828-2/RMS/DCF/KJC	

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AS	B30	WO 99/09394	02/1999	Alexion Pharmaceuticals, Inc.		
	B31	WO 99/28505	06/1999	Curagen Corp.		
	B32	WO 99/34931	07/1999	Cartesian Technology, Inc.		
	B33	WO 99/39001	08/1999	Amersham Pharmacia Biotech AB		
	B34	WO 99/53087	10/1999	Europäisches Laboratorium für Molekularbiologie (EMBL)		
	B35	WO 00/26411	05/2000	Lynx Therapeutics		
	B36	WO 00/34299	06/2000	Biochip Technologies GMBH		
	B37	WO 00/47767	08/2000	Astrazeneca UK Limited.		
	B38	WO 00/71992	11/2000	Illumina Inc.		
	B39	WO 01/12862	02/2001	Illumina, Inc.		
	B40	WO 01/18524	03/2001	Illumina, Inc.		
	B41	WO 01/41918	06/2001	Illumina, Inc.		
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	B45	WO 01/59432	08/2001	Illumina Inc.		
	B46	WO 01/61043	08/2001	Illumina Inc.		
	B47	WO 02/00336	01/2002	Illumina Inc.		

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		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
		Attorney Docket Number	A-66828-2/RMS/DCF/KJC
Sheet	10	of	15

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OS	B48	WO 02/099982	12/2002	Illumina Inc.		
	B49	WO 02/12897	02/2002	Illumina Inc.		
	B50	WO 02/16649	02/2002	Illumina Inc.		
	B51	WO 02/21128	03/2002	Illumina Inc.		
	B52	WO 02/101358	12/2002	Illumina Inc.		
	B53	WO 03/002979	12/2002	Illumina Inc.		
	B54	WO 03/006677	01/2003	Illumina Inc.		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
Sheet 11 of 15	Attorney Docket Number	A-66828-2/RMS/DCF/KJC	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
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Examiner Signature	<i>A. Sherry</i>	Date Considered	3/3/00
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		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
		Attorney Docket Number	A-66828-2/RMS/DCF/KJC
Sheet	12	of	15

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	C32	Huang, L. et al., "Exploring Single-cell Dynamics Using Chemically-modified Microelectrodes," Trends in Analytical Chemistry 14(4):158-164 (1995)	
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	C39	Levy, U. et al., "Direct Picture Transmission in a Single Optical Fiber with Holographic Filters," Optics Communications, 30(2):163165 (1979)	
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Examiner Signature	<i>A. Smiley</i>	Date Considered	3/3/06
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	C61	Parce, J. et al., "Detection of Cell-Affecting Agents with a Silicon Biosensor," Science 246:243-247 (October 1989)	

Examiner Signature	<i>A. Smiley</i>	Date Considered	3/3/06
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		Filing Date	June 24, 1999
		First Named Inventor	Chee, M.S.
		Group Art Unit	1631
		Examiner Name	Marschel, A.H.
Sheet 14 of 15	Attorney Docket Number	A-66828-2/RMS/DCF/KJC	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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(B)	C62	Park, M. et al., "Block Copolymer Lithography: Periodic Arrays of ~10 ¹¹ Holes in 1 Square Centimeter," Science 276:1401-1404 (May 1997)	
	C63	Plunkett, M. et al., "Combinatorial Chemistry and New Drugs," Scientific American, April 1997, 69-73.	
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	C73	Smith, L., et al., "Fluorescence detection in automated DNA sequence analysis," Nature, 321, 674-679 (1986)	
	C74	Still, W.C., et al., "Discovery of Sequence-Selective Peptide Binding by Synthetic Receptors Using Encoded Combinatorial Libraries," Acc. Chem. Res. 29(3): 155-163 (1996)	
	C75	Syvanen, Anne-Christine. "From gels to chips: "Minisequencing" Primer Extension for Analysis of Mutations and Single Nucleotide Polymorphisms," Human Mutation, 13:1-10 (1999).	
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	C77	Venton, D. et al., "Screening combinatorial libraries," Chemometrics and Intelligent Laboratory Systems, Elsevier Science Publishers, Amsterdam, 48(2) 131-150 (1999)	
	C78	Walt, D. et al., "Design, Preparation, and Applications of Fiber-Optic Chemical Sensors for Continuous Monitoring," Fiber Optic Chemical Sensors, Chemical Sensors and Microinstrumentation, 252-272 (1989)	
	C79	White, J. et al., "Rapid Analyte Recognition in a Device Based on Optical Sensors and the Olfactory System," Analytical Chemistry, 68(13): 2191-2201 (1996)	

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Examiner Signature	<i>A. G. Smith</i>	Date Considered	3/3/06
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Sheet	15	of	15

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OP	C80	Wightman, R.M. et al., "Monitoring Catecholamines at Single Cells," Trends in Analytical Chemistry 14(4):154-158 (1995)	
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	C83	Wong, K. et al., "Simultaneous Monitoring of Glutathione and Major Proteins in Single Erythrocytes," Mikrochim. Acta. 120:321-327 (1995)	
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	C86	Zare, R.N., "Making a Biosensor from a Cell and a Fluorescent Dye," Biophotonics International, 17 (March/April 1995)	
	C87	Zellers, E. et al., "Optimal Coating Selection for the Analysis of Organic Mixtures with Polymer-Coated Surface Acoustic Wave Sensor Arrays," Analytical Chemistry . 67(6): 1092-1106 (1995)	
	C88	Zhang et al., "A Combinatorial Method for the Solid Phase Synthesis of Alpha-Amino Phosphates and Phosphonic Acids," Tetrahedron Letter, 37(31): 5457-5460 (1996).	
	C89	Zhujun, Z. et al., "A Fluorescence Sensor for Quantifying pH in the Range for 6.5 to 8.5," Anal. Chem. Acta., 160:47-55 (1984)	
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